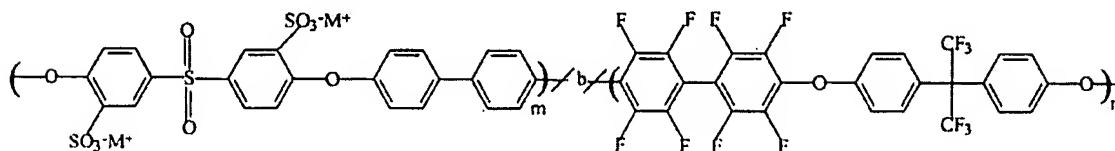


In the Claims:

The following is a complete listing of all of the claims in the application, with an indication of the status of each

1. (original) A multiblock copolymer with chemical structure

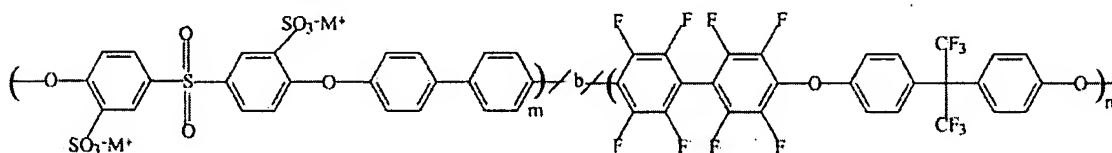


where M^+ is a positively charged counterion selected from the group consisting of potassium, sodium and alkyl amine, $m = 2$ to 50 , $n = 2$ to 30 , and b represents connection of respective blocks.

2. (currently amended) The multiblock copolymer of claim 1, wherein $m + n$ is at least 10 ~~[[4]]~~.
3. (currently amended) The multiblock copolymer of claim 1, wherein $m + n$ is from 10 to 30 ~~4 to 80~~.
4. (currently amended) A proton exchange membrane (PEM) comprising a multiblock copolymer that comprises at least one hydrophobic segment that includes a fluorinated aromatic and at least one hydrophilic segment that is sulfonated, wherein the membrane has co-continuous morphology of hydrophobic and hydrophilic segments, has a mean humidity in a range of from 10% to 80%, and has proton conductivity in a range of from 0.005 to 0.3 S/cm.
5. (original) The PEM of claim 4, wherein the mean humidity is in a range of 25% to 70%.

6. (original) The PEM of claim 4, wherein the proton conductivity is in a range of 0.05 to 0.25 S/cm.
7. (original) The PEM of claim 4, wherein the mean humidity is in a range of 25% to 70% and the proton conductivity is in a range of 0.05 to 0.25 S/cm.
8. (original) The PEM of claim 4, wherein the hydrophobic segment is perfluorinated.
9. (original) The PEM of claim 4, wherein the hydrophilic segment is disulfonated.
10. (currently amended) A method of making a multiblock copolymer comprising a fluorinated hydrophobic segment and a sulfonated hydrophilic segment, comprising the step of: reacting at least one fluorinated block that includes a fluorinated aromatic with at least one sulfonated block in a condensation reaction to form a multiblock copolymer which has co-continuous morphology of hydrophobic and hydrophilic segments.
11. (canceled)
12. (canceled)
13. (canceled)
14. (original) The method of claim 10, wherein at least two fluorinated blocks and at least two sulfonated blocks are reacted in the condensation reaction.
15. (original) The method of claim 10, wherein a number of fluorinated blocks being reacted in the condensation reaction is in a range of 2 to 30 and a number of sulfonated blocks being reacted in the condensation reaction is in a range of 2 to 50.

16. (original) The method of claim 10, wherein a sufficient number of blocks are used in the condensation reaction to form a polymer electrolyte membrane.
17. (original) The method of claim 10, wherein the fluorinated block is a perfluorinated block.
18. (original) The method of claim 10, wherein the sulfonated block is disulfonated.
19. (currently amended) The method of claim 10 ~~[[13]]~~, wherein the reacting step forms a multiblock copolymer of claim 1 is formed by the condensation reaction having the structure



where M⁺ is a positively charged counterion selected from the group consisting of potassium, sodium and alkyl amine, m = 2 to 50, n = 2 to 30, and b represents connection of respective blocks.

20. (original) The method of claim 10, wherein a multiblock copolymer comprising at least two perfluorinated poly(arylene ether) segments and at least two disulfonated poly(arylene ether sulfone) segments is formed.
21. (canceled)
22. (currently amended) An ion-exchange resin comprising a multiblock copolymer comprising at least one fluorinated hydrophobic segment that includes a fluorinated aromatic and at least one sulfonated hydrophilic segment which has co-continuous morphology of hydrophobic and hydrophilic segments, ~~wherein the multiblock copolymer has been formed by a condensation reaction.~~

23. (original) The ion-exchange resin of claim 22, wherein the sulfonated hydrophilic segment is disulfonated.
24. (original) The ion-exchange resin of claim 22, wherein the fluorinated hydrophobic segment is a perfluorinated ether.
25. (currently amended) The ion-exchange resin of claim 22 wherein said at least one fluorinated hydrophobic segment and said at least one hydrophilic segment are respectively including perfluorinated poly(arylene ether) and disulfonated poly(arylene ether sulfone) segments.
26. (currently amended) A fuel cell comprising:
a polymer electrolyte membrane (PEM) comprising a multiblock copolymer comprising:
at least one fluorinated hydrophobic segment that includes a fluorinated aromatic
and at least one sulfonated hydrophilic segment, ~~wherein the multiblock copolymer has been formed by a condensation reaction;~~
an anode and a cathode.
27. (original) The fuel cell of claim 26, wherein the sulfonated hydrophilic segment is disulfonated.
28. (original) The fuel cell of claim 26, wherein the fluorinated hydrophobic segment is a perfluorinated ether.
29. (currently amended) The fuel cell of claim 26, wherein the PEM includes perfluorinated poly(arylene ether) and disulfonated poly(arylene ether sulfone) segments respectively as said fluorinated hydrophobic segment and said sulfonated hydrophilic segment.